

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321545

Luminaire Tested: **GAN-SA1A-730-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321545  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3417 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

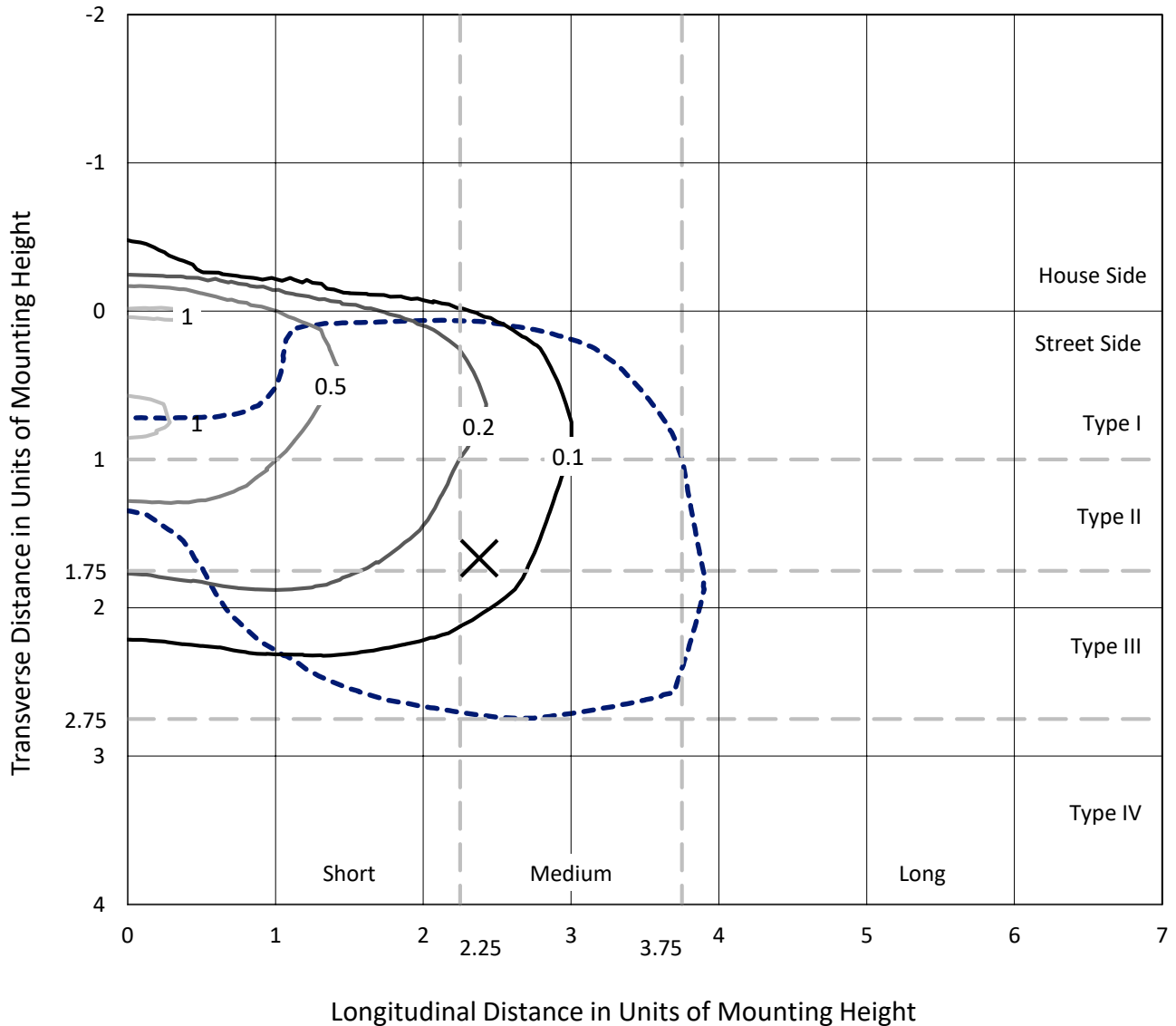
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

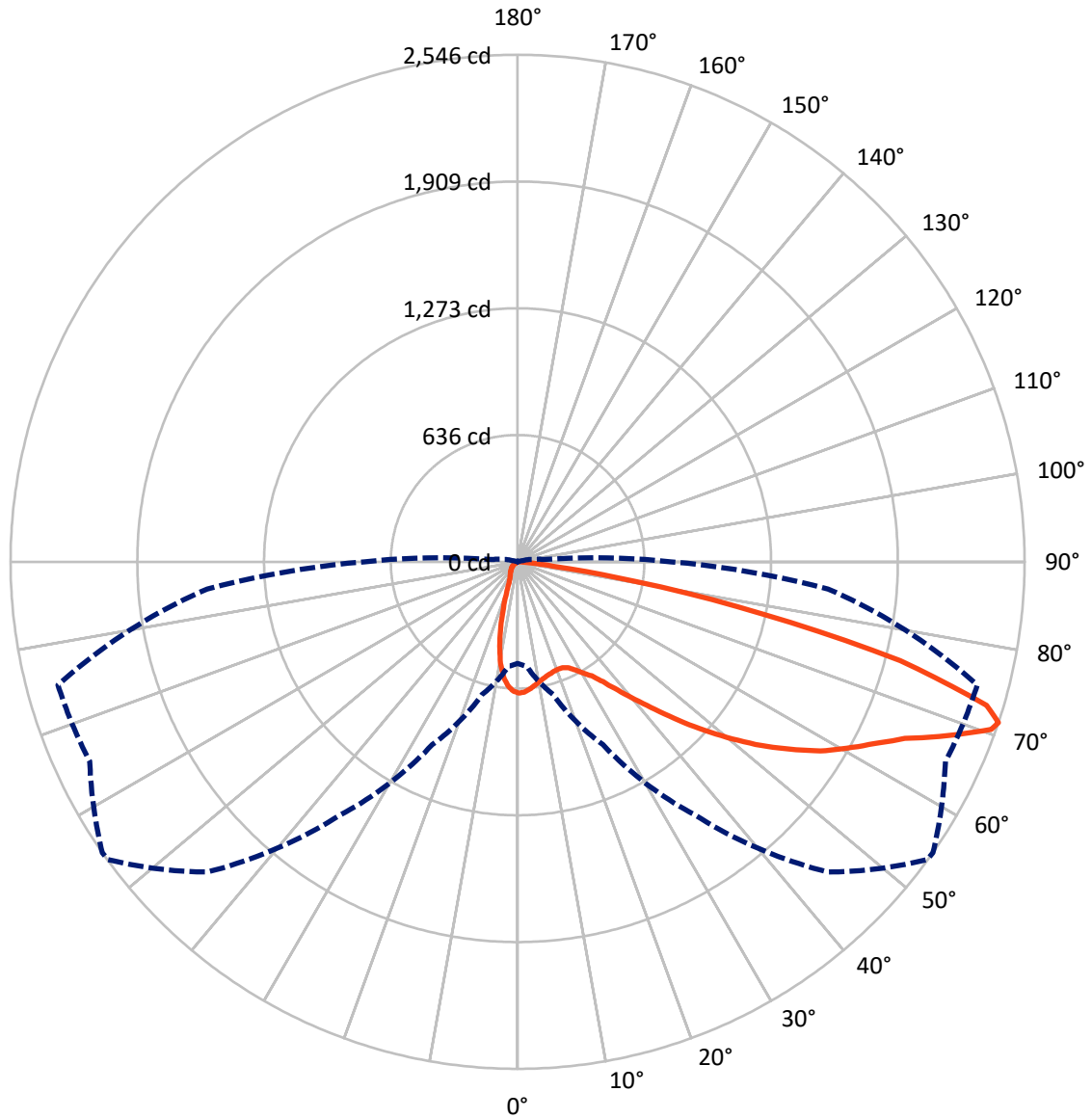
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	270.5	0.0	270.5
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	3146.5	0.0	3146.5
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	3417.0	0.0	3417.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.2	1.6
10°-20°	126.8	3.7
20°-30°	203.8	6.0
30°-40°	346.3	10.1
40°-50°	537.6	15.7
50°-60°	722.8	21.2
60°-70°	884.2	25.9
70°-80°	516.9	15.1
80°-90°	22.3	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3417.0	100.0
0°-180°	3417.0	100.0

**Coefficient of Utilization**

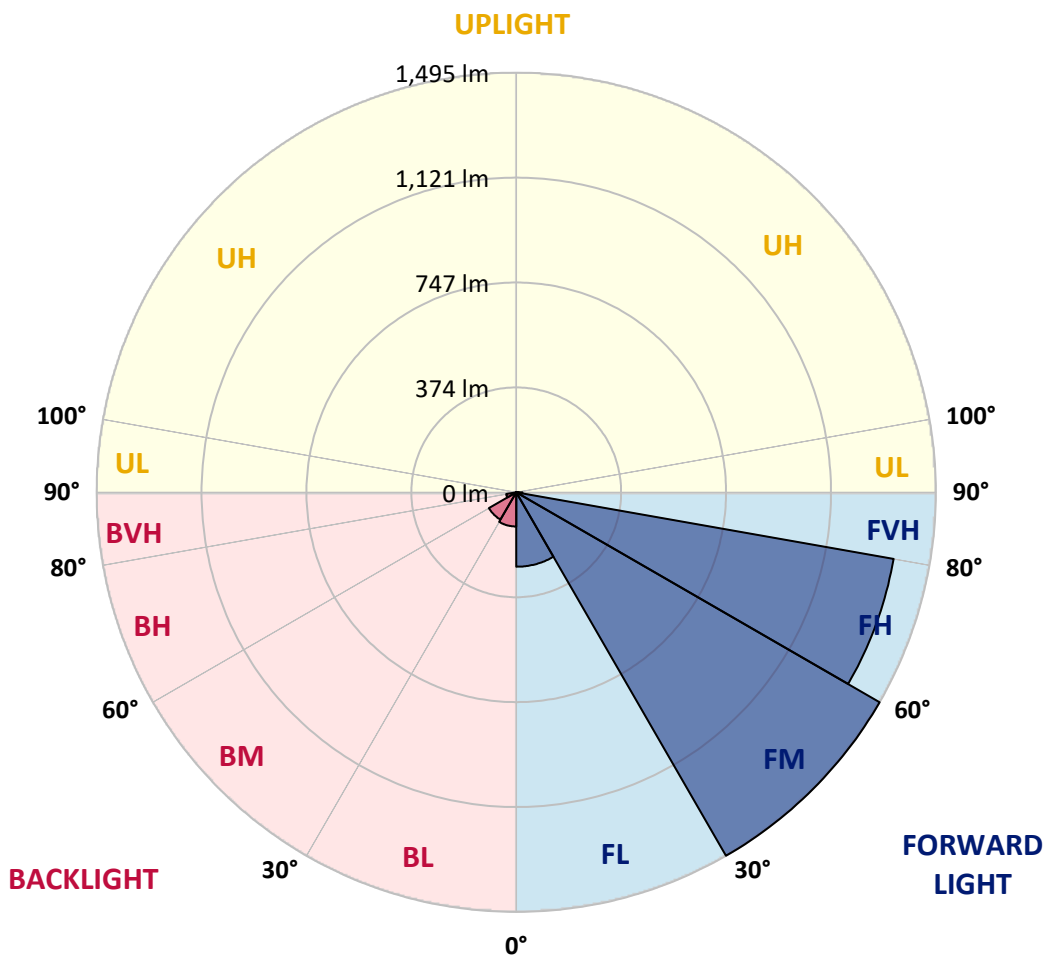


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.1	7.8			
FM (30°-60°)	1494.5	43.7			
FH (60°-80°)	1364.9	39.9			G1/1800
FVH (80°-90°)	22.0	0.6			G1/100
BL (0°-30°)	121.8	3.6	B1/500		
BM (30°-60°)	112.2	3.3	B0/220		
BH (60°-80°)	36.2	1.1	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
2.5°	639.6	640.4	643.2	644.4	647.3	652.2	654.7	654.8	658.8	660.4	661.6
5°	594.4	599.0	603.6	608.5	617.4	629.2	640.9	642.0	654.8	664.4	669.4
7.5°	555.4	559.6	565.1	572.9	585.5	604.1	623.5	625.8	650.2	671.9	683.2
10°	515.4	518.7	526.7	538.2	555.6	580.4	606.7	610.5	646.1	682.0	701.9
12.5°	472.6	474.6	484.2	500.8	526.3	557.9	592.4	597.5	643.5	693.7	724.0
15°	440.0	441.0	450.2	467.3	496.5	537.6	581.3	587.5	644.1	707.6	748.1
17.5°	431.8	432.2	437.1	448.9	474.7	519.5	572.6	580.1	645.9	721.3	772.4
20°	465.4	462.1	457.1	455.2	466.3	508.6	567.4	575.8	648.4	733.4	794.2
22.5°	557.6	548.1	527.0	499.0	481.9	509.4	568.8	577.2	656.2	748.3	819.3
25°	694.4	681.2	645.5	590.2	537.2	531.5	580.3	588.9	671.4	766.1	843.4
27.5°	850.2	837.1	793.4	714.5	624.0	575.2	606.7	614.6	694.0	781.9	861.8
30°	999.3	995.6	944.1	854.5	733.2	646.1	640.7	647.5	710.7	791.4	876.4
32.5°	1125.7	1119.9	1078.5	991.3	858.3	731.2	680.8	682.8	723.3	803.7	895.4
35°	1242.9	1235.7	1199.4	1117.0	986.6	835.3	742.4	739.5	750.7	828.4	923.0
37.5°	1345.3	1351.9	1311.5	1233.1	1101.6	943.4	825.6	816.9	793.7	868.6	963.1
40°	1430.9	1430.9	1409.9	1344.5	1225.9	1055.3	919.7	908.2	858.3	930.6	1013.9
42.5°	1461.7	1468.3	1476.1	1439.2	1337.1	1171.6	1024.5	1012.5	949.3	1018.5	1078.0
45°	1463.6	1474.0	1514.0	1513.9	1437.6	1287.1	1142.6	1136.9	1065.9	1131.4	1157.5
47.5°	1437.6	1450.7	1516.7	1554.1	1517.3	1394.7	1271.8	1264.7	1202.9	1269.8	1240.6
50°	1397.6	1412.0	1488.7	1569.9	1571.4	1488.3	1407.9	1397.3	1353.7	1428.0	1326.6
52.5°	1325.9	1353.9	1463.7	1573.6	1607.0	1569.1	1537.4	1532.8	1522.5	1580.3	1395.0
55°	1172.7	1203.7	1401.0	1574.8	1640.0	1640.8	1658.7	1660.0	1680.7	1722.7	1445.9
57.5°	1100.2	1117.7	1291.4	1580.6	1689.0	1722.1	1782.4	1791.9	1824.0	1857.9	1504.1
60°	1054.7	1075.4	1237.4	1572.7	1765.8	1828.7	1897.0	1900.2	1934.6	1997.3	1582.8
62.5°	1018.3	1038.7	1203.3	1542.0	1852.2	1957.0	2009.0	2009.3	2035.1	2163.5	1672.2
65°	928.6	945.7	1134.5	1507.4	1909.3	2083.9	2139.1	2137.1	2158.1	2338.7	1776.1
67.5°	798.8	812.0	993.8	1376.6	1887.8	2199.3	2335.5	2328.9	2303.4	2490.2	1816.9
70°	617.6	622.3	783.3	1147.2	1686.5	2243.6	2525.3	2521.9	2392.6	2463.0	1667.3
71°	510.5	526.1	690.3	1012.5	1551.6	2202.6	2543.7	2545.7	2370.2	2389.1	1564.4
72.5°	296.4	309.8	500.3	777.6	1317.3	2031.7	2448.3	2462.7	2265.5	2173.0	1336.2
75°	63.5	68.0	185.5	376.4	724.6	1424.0	1932.4	1983.8	1846.5	1478.3	805.4
77.5°	44.2	47.7	79.5	170.8	239.5	703.6	1200.4	1258.4	1103.2	555.6	257.8
80°	35.0	39.0	62.0	84.4	64.7	226.9	562.3	597.8	367.9	124.0	43.4
82.5°	19.5	23.2	48.3	45.6	24.9	43.1	157.4	178.0	73.6	25.0	10.3
85°	5.7	6.9	31.1	33.1	10.6	8.3	26.9	33.3	14.0	6.6	4.6
87.5°	0.0	0.0	15.0	12.7	3.1	1.2	2.5	2.8	2.8	2.8	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
2.5°	661.6	662.7	658.8	653.8	648.4	641.8	634.9	629.5	629.4	626.8	624.2
5°	669.7	669.1	658.5	642.4	623.4	603.6	584.7	563.4	556.3	547.6	544.7
7.5°	684.8	680.5	658.1	622.8	581.0	539.6	496.8	453.7	435.3	418.7	415.8
10°	703.6	695.5	655.1	593.3	516.8	440.3	375.7	317.1	291.4	271.6	270.7
12.5°	723.3	710.8	647.0	548.8	432.5	325.1	250.7	193.0	171.5	157.7	159.0
15°	743.8	725.3	629.5	488.8	336.6	220.6	154.0	120.1	111.5	108.0	108.9
17.5°	764.8	735.2	605.1	416.6	242.0	142.4	106.6	97.1	97.1	97.9	98.2
20°	783.1	740.6	569.2	335.6	164.0	103.7	93.3	91.9	92.7	93.9	94.1
22.5°	801.2	740.9	522.4	253.5	114.8	90.8	88.8	88.2	88.7	90.1	90.2
25°	815.9	737.2	463.8	180.3	91.6	85.6	84.7	84.4	84.7	86.4	86.4
27.5°	821.9	723.9	392.3	126.7	82.1	79.8	79.5	79.8	80.2	81.5	81.6
30°	822.5	700.6	314.4	91.8	74.4	72.0	72.6	73.6	73.2	72.9	73.2
32.5°	824.1	673.6	238.4	75.5	68.0	64.1	63.4	63.4	61.5	60.5	59.8
35°	829.1	641.8	172.9	67.8	61.4	56.9	54.0	50.6	47.1	45.3	44.8
37.5°	837.1	608.5	123.8	62.8	55.5	50.5	45.0	39.0	33.9	32.5	32.5
40°	851.7	574.1	91.6	58.8	50.9	44.6	36.4	28.5	23.9	23.2	23.2
42.5°	874.7	537.9	73.0	55.2	46.9	38.7	27.8	20.7	17.3	16.9	16.7
45°	898.6	498.0	63.8	51.9	42.7	31.8	20.6	15.3	13.3	12.9	12.9
47.5°	922.6	455.5	59.4	48.6	38.5	24.7	15.3	12.1	11.2	11.2	11.4
50°	942.8	411.2	56.2	45.1	33.1	18.7	12.1	10.3	10.0	10.6	10.7
52.5°	947.9	367.6	52.2	40.7	26.5	14.3	10.0	9.1	9.1	9.1	9.1
55°	944.8	333.9	46.9	35.1	19.6	11.4	8.6	8.0	7.8	7.8	7.8
57.5°	955.3	313.9	37.6	27.3	14.1	9.2	7.5	7.1	6.8	6.6	6.6
60°	976.3	300.9	26.9	19.6	10.6	7.7	6.4	6.0	5.5	5.2	5.2
62.5°	1004.2	289.5	19.9	14.6	8.1	6.1	5.4	4.9	4.3	4.0	4.0
65°	1025.7	269.3	15.2	10.9	6.1	4.9	4.1	4.0	3.1	2.8	2.6
67.5°	992.8	224.8	12.3	8.0	4.6	3.8	3.2	3.1	1.8	1.5	1.5
70°	851.5	156.5	9.8	5.8	3.4	3.1	2.6	2.0	1.4	1.2	1.2
71°	772.2	130.7	8.9	4.9	2.9	2.9	2.5	1.7	1.2	1.1	1.1
72.5°	641.5	92.8	7.5	3.8	2.6	3.1	2.6	1.5	1.2	1.1	0.9
75°	372.4	38.8	5.2	2.6	2.0	3.7	3.4	1.4	0.9	0.8	0.8
77.5°	112.0	14.3	2.9	1.7	1.5	3.2	3.8	1.2	0.5	0.2	0.2
80°	20.4	6.1	1.8	1.1	1.1	2.0	2.9	0.6	0.0	0.0	0.0
82.5°	7.2	3.1	1.1	0.6	0.5	0.9	1.4	0.0	0.0	0.0	0.0
85°	4.1	2.1	0.6	0.3	0.0	0.2	0.3	0.0	0.0	0.0	0.0
87.5°	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)